

engineering data service

sylvania 6018

MECHANICAL DATA

Maximum Overall Length	,								23/8 Inches
Maximum Overall Diameter .		•		٠	٠	٠			0.814 Inches

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	(AC	or	D	C)							6.3 Volts
Heater Current											400 Ma

DIRECT INTERELECTRODE CAPACITANCES (AVERAGE)

Grid to Plate .								1.90 µµf
Grid to Cathode								
Plate to Cathode								

RATINGS (Absolute Values)

Plate Dissipation							5.0 Watts	Max.
Seal Temperature							175° C	Max.
Plate Voltage (Pulsed)								
Operating Frequency								

CHARACTERISTICS

Conditions:	(Eb	,== J	lδU	V	Olt:	SC	1C,	$\mathbf{K}_{\mathbf{k}}$	=	4UU	0	hm	S)		
															4500 μmhos
Amplification	Fac	ctor													25
Plate Current															12.0 Ma

TYPICAL OPERATING CONDITIONS

Peak Plate Voltage						1000 Vo	olts
Peak Plate Current							
Grid Voltage						0 V o	lts
Pulse Repetition Frequency							
Pulse Width							
Frequency of Operation						1000 M	2
Peak Power Output						200 W	atts
Grid Voltage for $I_b = 10 \mu a$						-28 Vo	lts

APPLICATION DATA

The Sylvania Type 6018 is designed for use as a pulse-modulated oscillator at frequencies up to 1200 mc. The 6018 has a built-in internal feedback circuit between cathode and anode and fits into a concentric circuit. A small amount of adjustable, external feedback is generally necessary in order to obtain optimum power output at any given frequency. A feedback probe between the output and input lines may be used. With plate-pulse modulation the grid may be operated at zero bias, eliminating the necessity of insulating the cathode from the grid in the input-line plunger. The folded plate and grid discs make this tube particularly adaptable to lumped constant and butterfly type circuits.

The Sylvania planar type construction features a stretched, parallel-wire grid that results in stable, uniform operation; a unique cathode design that minimizes discontinuities in the cathode structure; and, a disc-seal construction that satisfies the requirements for low lead inductance.

QUICK REFERENCE DATA

The Sylvania Type 6018 is a uhf triode designed for service as a pulse modulated oscillator at frequencies up to 1200 mc. Electrically, the Type 6018 is identical to the Type 2C36. The 6018, however, employs folded discs for both the grid and plate connectors. With plate pulsed modulation, the grid may be operated at zero bias.



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OUTLINE DRAWING

